

CONFIDENTIAL

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JUST <u>22</u>	NEXT REV <u>2010</u>	AUTH: <u>HR 10-2</u>

ORIGINAL CLEY 235779
☐ DECL ☒ REVIEW 2010
EXT BYND 6 YRS BY SAME
REASON 3 & 31

PROGRESS REPORT

FOR

AUGUST 1955

ON

4-INCH ROCKET

September 23, 1955

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After the completion of the static test stand, the pressure cell was installed and a cable was laid connecting the cell to a modified oscilloscope 400 feet away. A safety proofed firing line was installed and tested.

Upon the arrival of the propellant powder, static tests were made with a single tube steel motor to test the instrumentation and familiarize personnel with the firing procedure.

Two motors were made of the new type discussed in the June, 1955, report. These were fired in the static test stand and performed very encouragingly in spite of a nozzle blowout which was thought to be due to a poor bond inside the tube.

A trip was made by [] personnel to the proposed flight test area. Although the site was not entirely suitable, an immediate range of 1,000 yards was available and it was thought that the necessary range of 3,000 yards could be made available, although under somewhat adverse conditions.

50X1

Future Work

Tests are planned on a head made from a block of unreinforced polyester. A search for other possible casting resins will be made.

[] will be searched to determine the maximum available range within this area. The most suitable range will be selected so that flight tests can begin as soon as possible. It is thought probable that long range models could be fired at a higher angle, thus shortening their range. Although the information derived from such shots would have to be extrapolated to 45° angle firing, sufficient data could be acquired so as to lessen the time that a full length range would be required.

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Financial Statement

Total Amount of Contract (Phases 1 and 2)

Expenditures for August, 1955

Total Expenditures to 31 August, 1955

Balance of Contract

Expiration Date - November 1, 1955

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*Tagged
10/6/55
Ant.*